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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/632,781	08/01/2003	Isaiah Watas Cox	5063	
75	7590 01/05/2006		EXAMINER	
Borealis Technical Limited 23545 NW Skyline Blvd			GHYKA, ALEXANDER G	
North Plains, OR 97133-9204			ART UNIT	PAPER NUMBER
			2812	
			DATE MAILED: 01/05/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	•	SP
	Application No.	Applicant(s)
	10/632,781	COX ET AL.
Office Action Summary	Examiner	Art Unit
	Alexander G. Ghyka	2812
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	ON. timely filed on the mailing date of this communication. NED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 2a) This action is FINAL . 2b) This 3) Since this application is in condition for alloward closed in accordance with the practice under E	e action is non-final. nce except for formal matters, p	
Disposition of Claims		
4) Claim(s) 1-25 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-25 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	wn from consideration.	ALEXANDER GHYKA PRIMARY EXAMINER Av 28 (2 Ale Ale Ale Ale Ale Ale Ale Al
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 01 August 2003 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex Priority under 35 U.S.C. § 119	a) accepted or b) objected or b) objected drawing(s) be held in abeyance. Solition is required if the drawing(s) is container. Note the attached Office	see 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d). ce Action or form PTO-152.
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Applica rity documents have been recei u (PCT Rule 17.2(a)).	ation No ved in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informal 6) Other:	

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DETAILED ACTION

Applicants' response of 10/28/2005 has been considered and entered in the record. The Applicants' arguments have been considered, but they are not persuasive for the reasons as discussed below.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-25 are rejected under 35 U.S.C. 102(e) as being anticipated by Tavkhelidze et al (US 6,417,060) for the reasons of record.

The applied reference has a common inventor with the instant application.

Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Tavkhelidze et al disclose a method for making a diode device where a sublimative material such as cadmium can be used as a sacrificial layer, and where the

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cadmium begins to evaporate before the melting temperature is reached, as required in present Claims 11-25. Moreover, Tavkhelidze et al disclose that considerable pressure is developed inside. See column 6, lines 5-11. Furthermore, Tavkhelidze et al disclose the introduction of cesium vapor, as required by present Claims 1-10. The statements "for reducing surface deformation " or "for reducing evaporative losses" are merely statements of intended utility. Therefore, Claims 1-25 are anticipated by the disclosure of Tavkhelidze et al.

Response to Applicants' Arguments

Applicants argue that the '060 patent is clearly directed to a method for fabricating a pair of electrodes whilst the process of the present invention is one in which a vapor pressure is increased in a space between the electrodes of a gap device in operation. The Examiner maintains that in response to applicant's arguments, the recitation "for operating a gap diode" has not been given patentable weight because the recitation occurs in the preamble. A preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See *In re Hirao*, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and *Kropa v. Robie*, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951). Moreover, the Examiner asserts that the limitation "said device" can be considered a gap diode as it is being formed as

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disclosed by the prior art reference. The mere limitation "for operating a gap diode" does not impart patentability to the present claims.

Applicants argue that the process in the '060 patent is one in which material in vapor form is removed from a space between the electrodes, whilst the process of the present invention is one in which material in vapor form is introduced into a space between the electrodes. The Examiner notes that the present Claims do not exclude the removal of the material, and notes that the vaporization of the material between the electrodes could reasonably be construed as "introducing" the material. With respect to In re Schreiber, 44 USPQ 2d 1429, the Examiner notes that the prior art structure is capable of performing the intended use as recited in the preamble. In view of the foregoing, the rejection of record is maintained.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander G. Ghyka whose telephone number is (703) 305-3407. The examiner can normally be reached on Monday through Thursday during general business hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt can be reached on (571) 272-1873. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AGG January 3, 2006

> ALEXANDER GHYKA PRIMARY EXAMINER

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